Methods, Systems, and Devices for Cartographic Alerts

Abstract of the Disclosure

Systems, devices, and methods are provided for marine navigation and course

5   calculation for avoiding preselected conditions. An electronic marine navigation device

with marine course calculation capabilities includes a processor connected to a memory

that includes cartographic data. A potential waypoint can be identified and a marine

route calculation algorithm can be preformed to calculate a course between a first

location and the potential waypoint in view of preselected conditions. Performing the

10   marine route calculation algorithm includes analyzing the cartographic data for the area

between the first location and the potential waypoint with a preference for providing a

course that avoids preselected conditions. A display is connected to the processor and is

capable of displaying the calculated course and cartographic data. The device is also

adapted to dynamically analyze an area surrounding the first location for preselected

15   conditions and display the results of the analysis.